

Notice of Allowability

Application No.

09/986,015

Examiner

Gelek Topgyal

Applicant(s)

HATABU, ATSUSHI

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 9/26/2006 and Interview Summary dated 11/30/2006.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 11/30/2006 .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Francis Plati Sr. (Reg# 59,153) on 11/30/2006.

The application has been amended as follows:

Regarding claim 1:

- a. On page 2, line 8, delete "were" and add -- are -- in it's place.
- b. On page 2, line 9, delete "were" and add -- are -- in it's place.

Regarding claim 2:

- c. On page 2, line 20, delete "were" and add -- are -- in it's place.
- d. On page 2, line 21, delete "were" and add -- are -- in it's place.

Regarding claim 3:

- e. On page 3, line 18, delete "picture" and add -- pictures -- in its place.
- f. On page 3, line 20, delete "were" and add -- are -- in its place.
- g. On page 3, line 21, delete "were" and add -- are -- in its place.
- h. On page 4, line 5, delete "the" between "... condition data" and " coded data has...".

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- i. On page 4, line 5, delete “the” between “... changed and” and “motion vector...” and add -- a -- in its place.

Regarding claim 4:

- j. On page 4, line 17, delete “picture” and add -- pictures -- in its place.
- k. On page 4, line 19, delete “were” and add -- are -- in its place.
- l. On page 4, line 20, delete “were” and add -- are -- in its place.
- m. On page 5, line 8, delete “the” and add -- a -- in its place.
- n. On page 5, lines 16-17, delete “the” between “... picture difference coded data and” and “pre-edit motion vector...”.

Regarding claim 5:

- o. On page 6, line 1, delete “picture” and add -- pictures -- in its place.
- p. On page 6, line 3, delete “were” and add -- are -- in its place.
- q. On page 6, line 4, delete “were” and add -- are -- in its place.
- r. On page 7, line 14, delete “the” and add -- a -- in its place.
- s. On page 7, line 18, delete “coded” before “coding the picture difference...”.
- t. On page 8, line 15, delete “the” and add -- a -- in its place.
- u. On page 8, line 16, delete “the” and add -- a -- in its place.

Regarding claim 8:

- v. On page 9, line 20, delete “picture” and add -- pictures -- in its place.
- w. On page 10, line 5, delete “the” and add -- a -- in its place.
- x. On page 10, line 6, delete “the” and add -- a -- in its place.
- y. On page 10, line 6, delete “were” and add -- are -- in its place.

- z. On page 10, line 8, delete "were" and add -- are -- in its place.

Regarding claim 9:

- aa. On page 10, line 21, delete "the" and add -- a -- in its place.

Regarding claim 10:

- bb. On page 11, line 5, delete "picture" and add -- pictures -- in its place.

- cc. On page 11, line 15, delete "were" and add -- are -- in its place.

- dd. On page 11, line 16, delete "the" and add -- a -- in its place.

- ee. On page 11, line 16, delete "were" and add -- are -- in its place.

Regarding claim 11:

- ff. On page 12, line 9, delete "picture" and add -- pictures -- in its place.

- gg. On page 12, line 14, delete "motion" between "... which subtracts" and "the post-edit..."; additionally, add "motion" between "...the post-edit" and "compensated picture...".

- hh. On page 12, line 17, delete "the".

- ii. On page 12, line 21, delete "the".

- jj. On page 13, line 5, delete "the" between "... frame controls" and "picture difference coder....".

- kk. On page 13, line 7, delete "were" and add -- are -- in its place.

- ll. On page 13, line 9, delete "were" and add -- are -- in its place.

Regarding claim 12:

- mm. On page 14, line 5, delete "picture" and add -- pictures -- in its place.

- nn. On page 14, line 18, delete "the".

oo. On page 14, line 20, delete “the” between “... which codes” and “post-edit coded data...”.

pp. On page 15, line 6, delete “were” and add -- are -- in its place.

qq. On page 15, line 7, delete “were” and add -- are -- in its place.

rr. On page 15, line 10, delete “the” between “...a condition that” and “coded data has....”.

ss. On page 17, line 9, add “compensated” between “... motion” and “picture of the subject frame...”.

Regarding claim 15:

tt. On page 18, line 12, add “computer” between “... picture editing” and “programs for realizing...”.

2. The following is an examiner’s statement of **reasons for allowance**:

Independent claims 1-3 and 5 recites a feature for “determining if reference frames which are utilized for motion compensation of a subject frame before editing and which are not deleted during editing are subject to error generation in processing” and “searching motion vectors in a range centered on each pre-edit motion vector of the subject frame to find a post-edit motion vector corresponding to a minimum value of a difference between a pre-edit motion compensated picture and a post-edit motion compensated picture.”. **Independent claim 4** recites a feature for “determining if reference frames which are utilized for motion compensation of a subject frame before editing and which are not deleted during editing are subject to error generation in

processing,” and “determining if at least one of the reference frames meets a condition that error generation in the reference frame results from re-encoding during editing or a condition that coded data has changed and a picture difference has been re-encoded during editing and a number of macroblocks of post-edit picture difference coded data and a number of macroblocks of pre-edit picture difference coded data exceed a threshold number.” The closest prior art, Feder et al. (US 6,300,973), Wee et al. (6,104,441) and Takahashi (US 5,912,709) disclose systems for editing compressed video (inter-frame) using motion compensation, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gelek Topgyal whose telephone number is 571-272-8891. The examiner can normally be reached on 8:30am -5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GT
11/30/2006

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